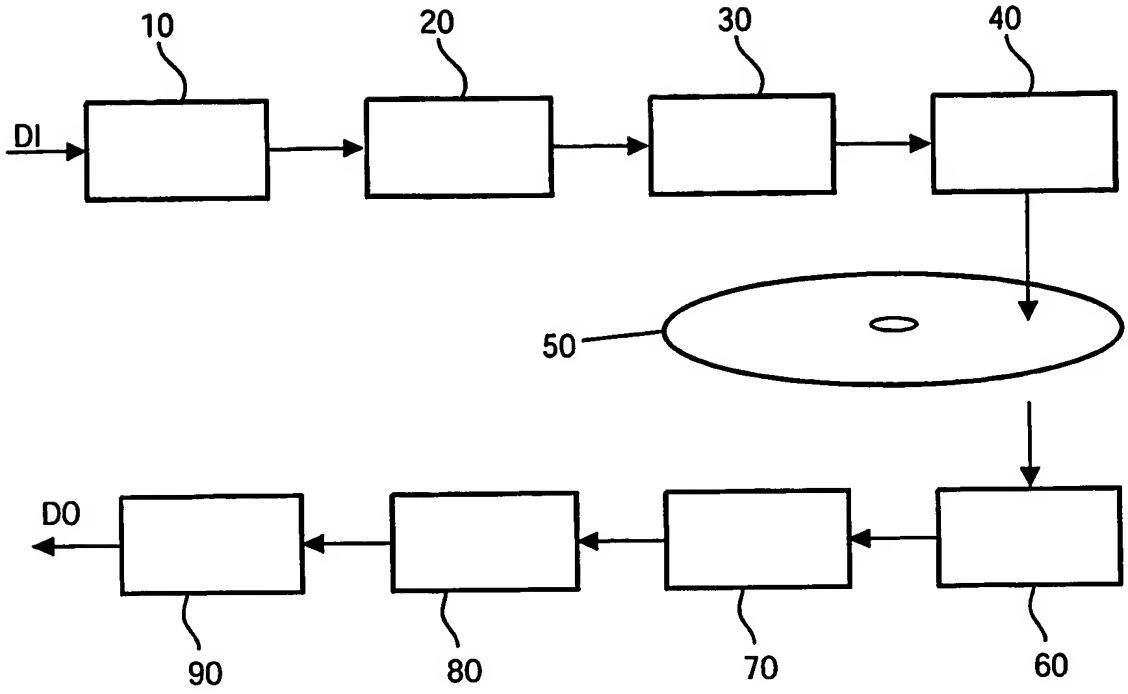
10
20
30
40
DI
50
DO
90
80
70
60

FIG.1

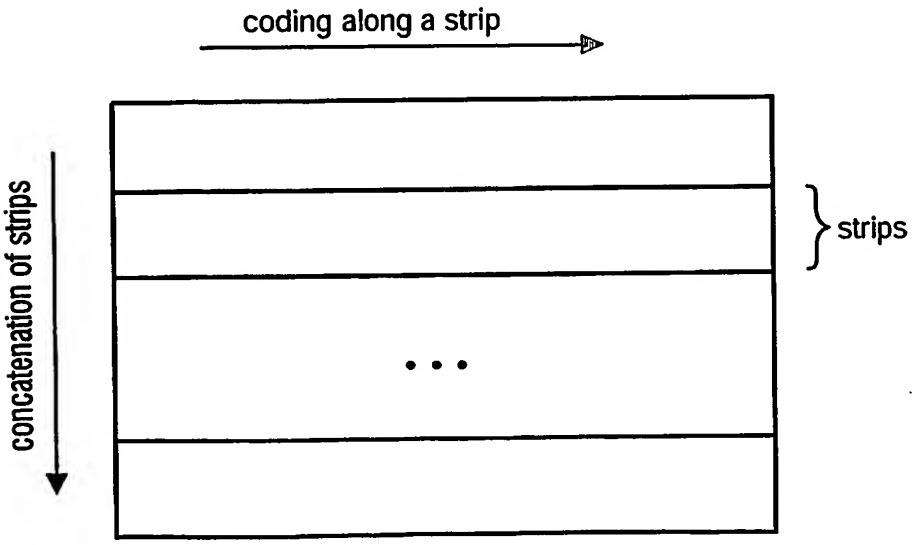
coding along a strip
concatenation of strips
strips

FIG.2

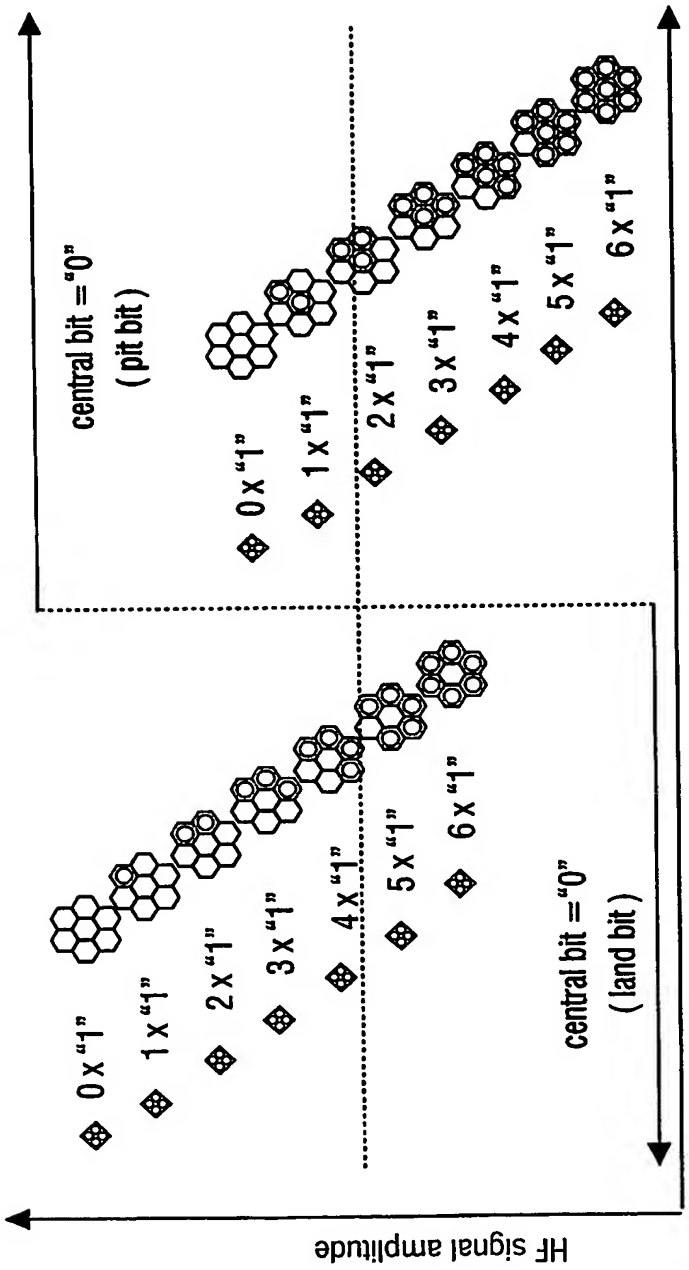
HF signal amplitude
Different 7-bit Hexagonal Clusters
central bit = "0"
(land bit)
0 x "1"
1 x "1"
2 x "1"
3 x "1"
4 x "1"
5 x "1"
6 x "1"
central bit = "0"
(pit bit)
0 x "1"
1 x "1"
2 x "1"
3 x "1"
4 x "1"
5 x "1"
6 x "1"

FIG.3

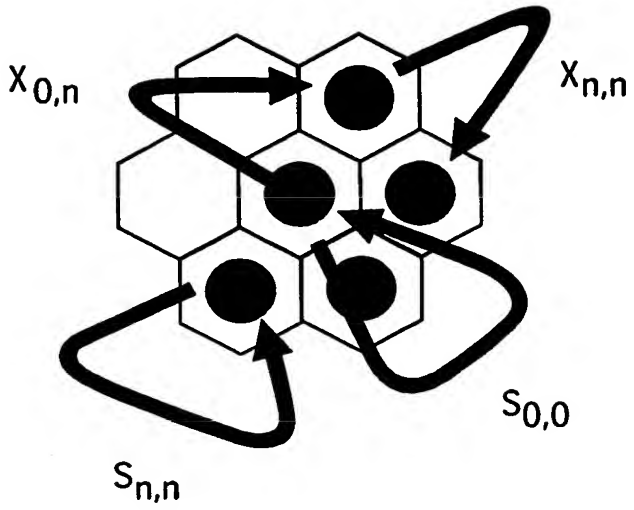


FIG.4

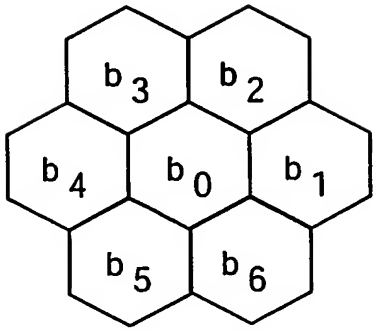


FIG.5

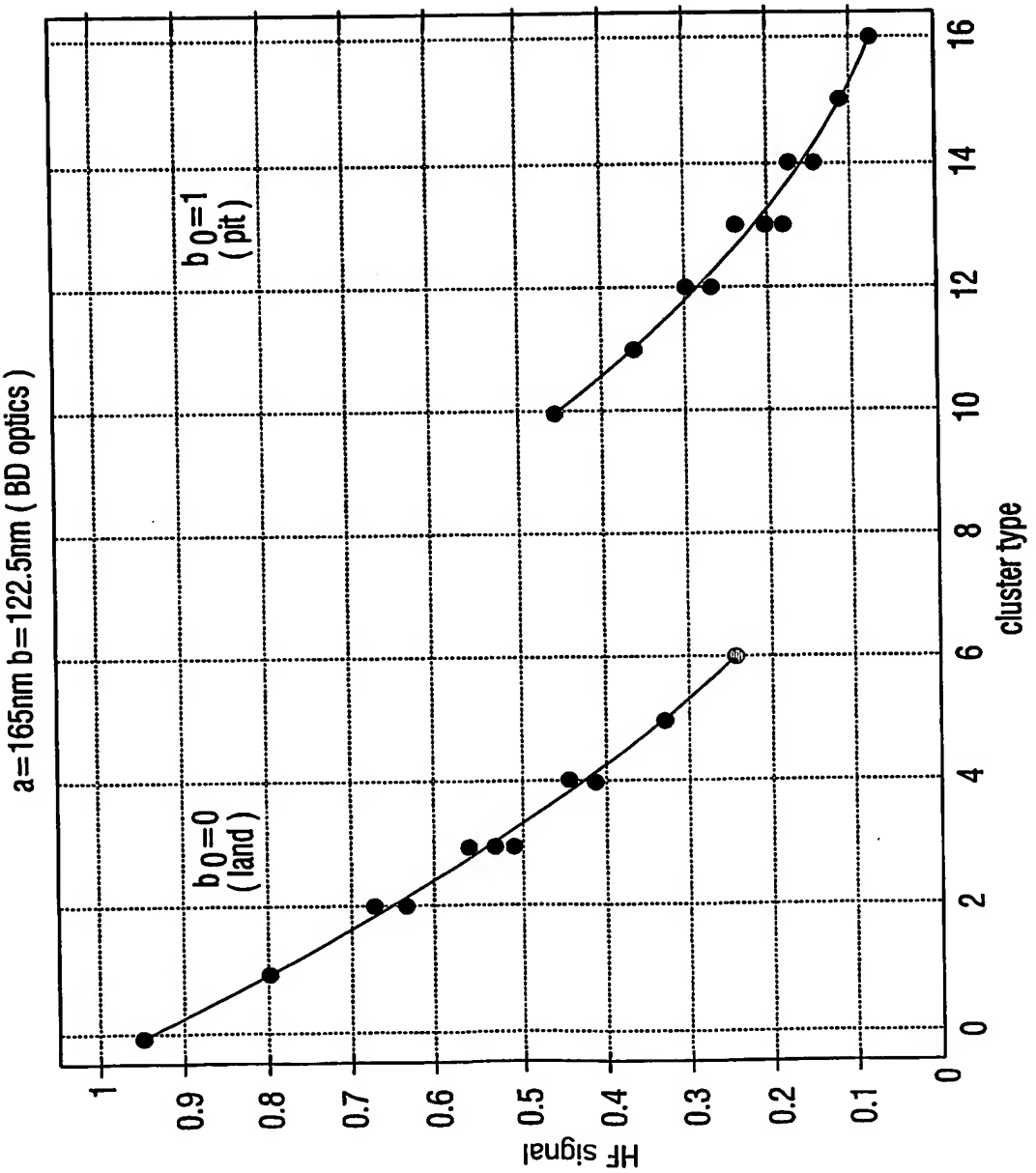
a=165nm b=122.5nm ( BD optics )
b 0=1
( pit )
b 0=0
( land )
HF signal
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
2
4
6
8
10
12
14
16
cluster type

FIG.6

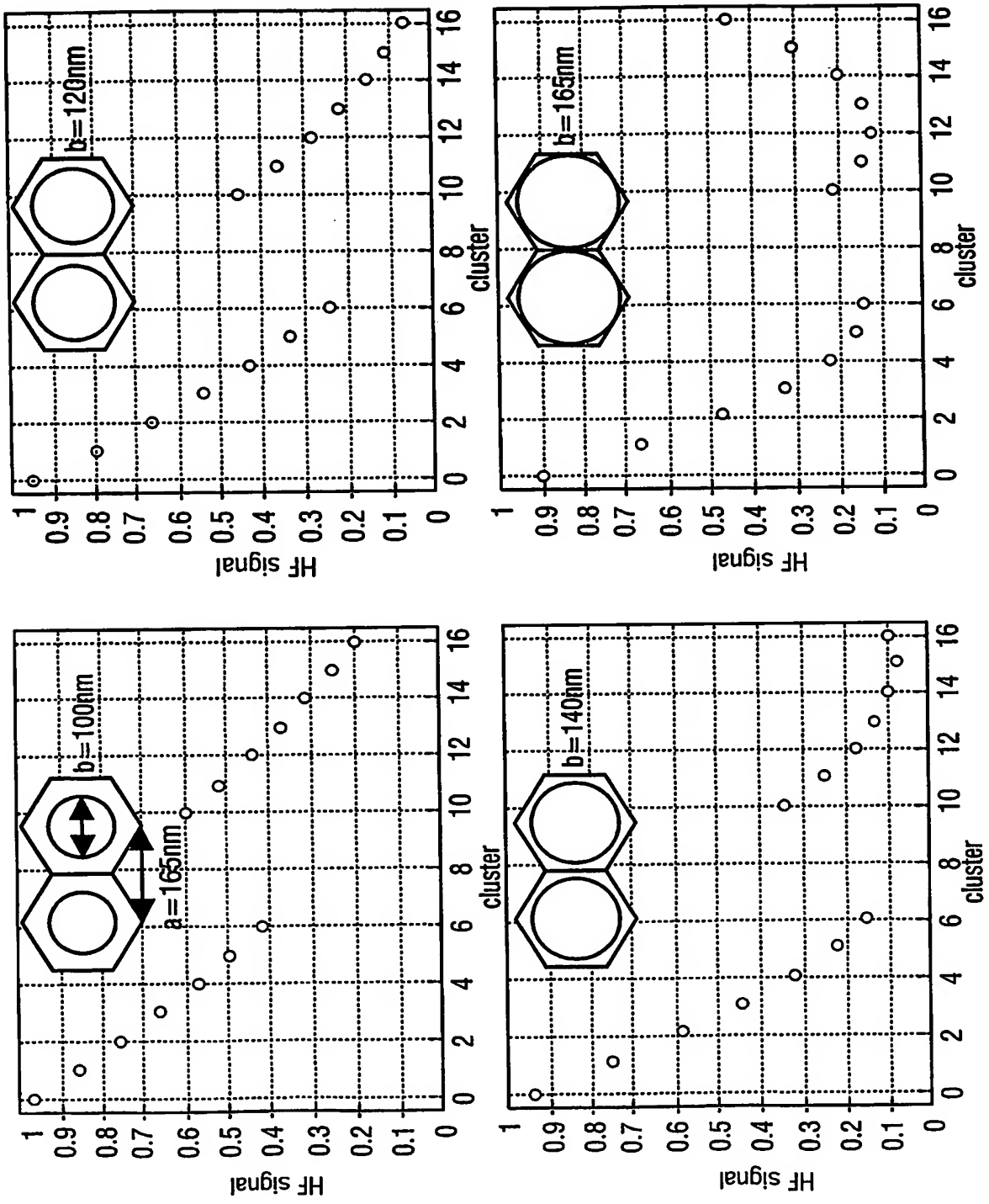


FIG.7

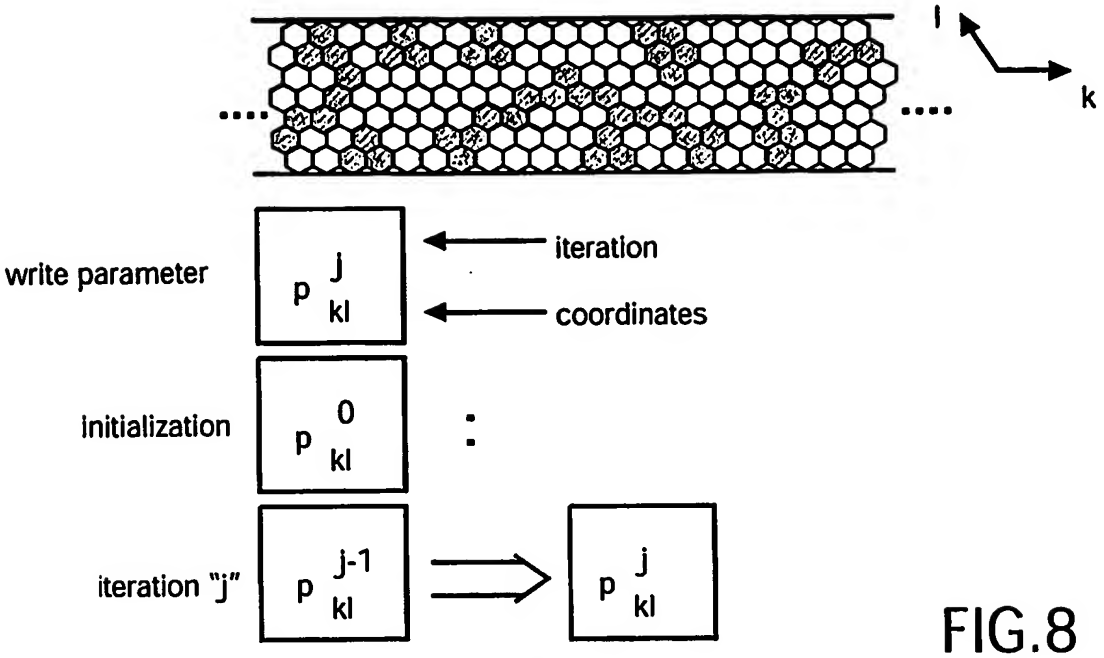
l
k
write parameter
p j kl
iteration
coordinates
initialization
p 0 kl
iteration "j"
p j-1 kl
p j kl

FIG.8

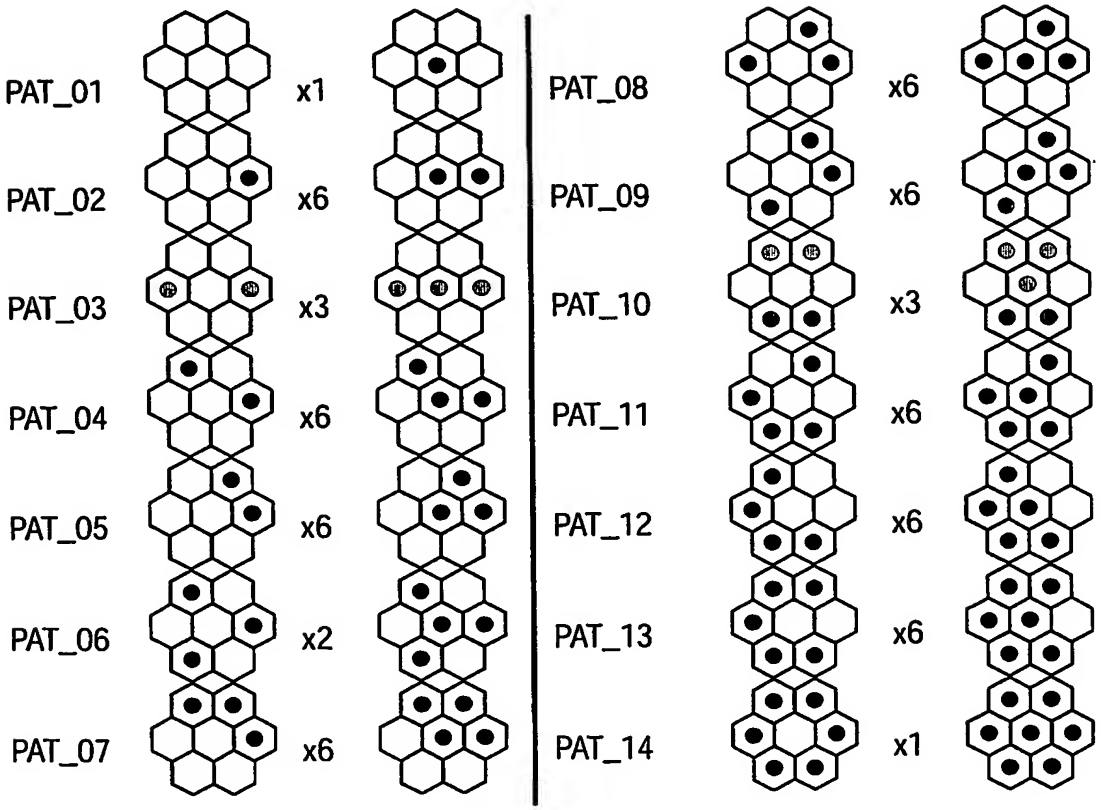
PAT_01 x1
PAT_02 x6
PAT_03 x3
PAT_04 x6
PAT_05 x6
PAT_06 x2
PAT_07 x6
PAT_08 x6
PAT_09 x6
PAT_10 x3
PAT_11 x6
PAT_12 x6
PAT_13 x6
PAT_14 x1

FIG.9

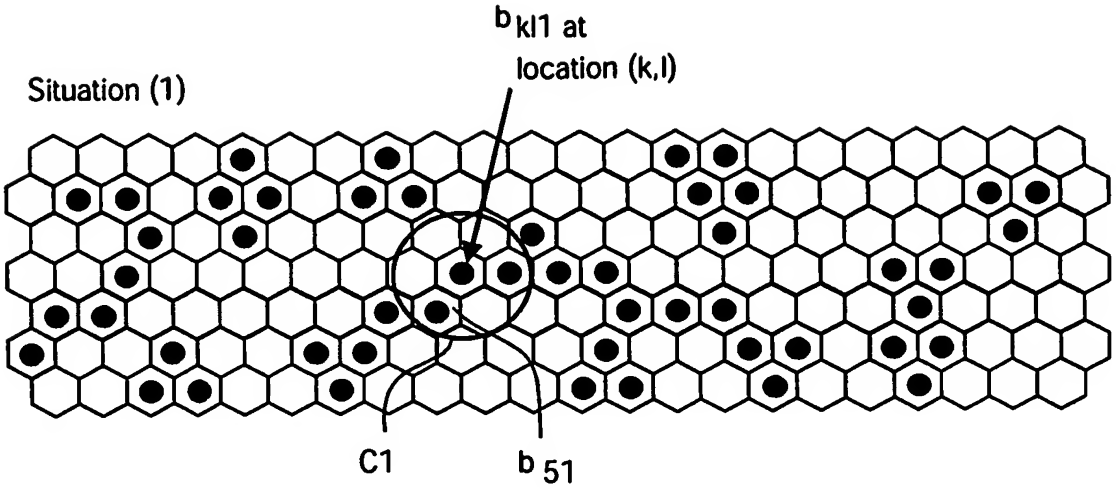


FIG.10a

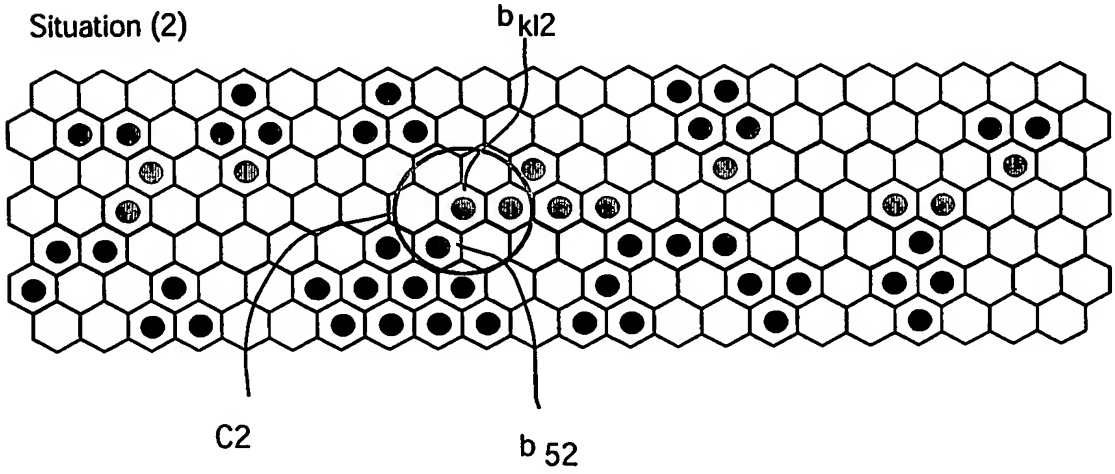


FIG.10b

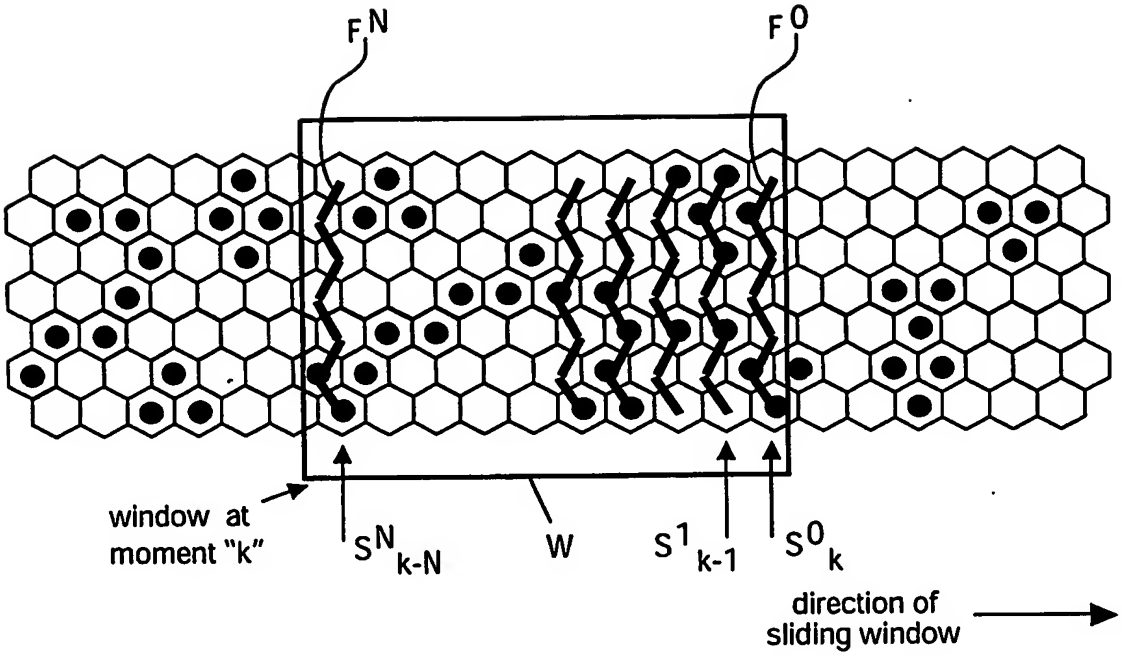


FIG.11a

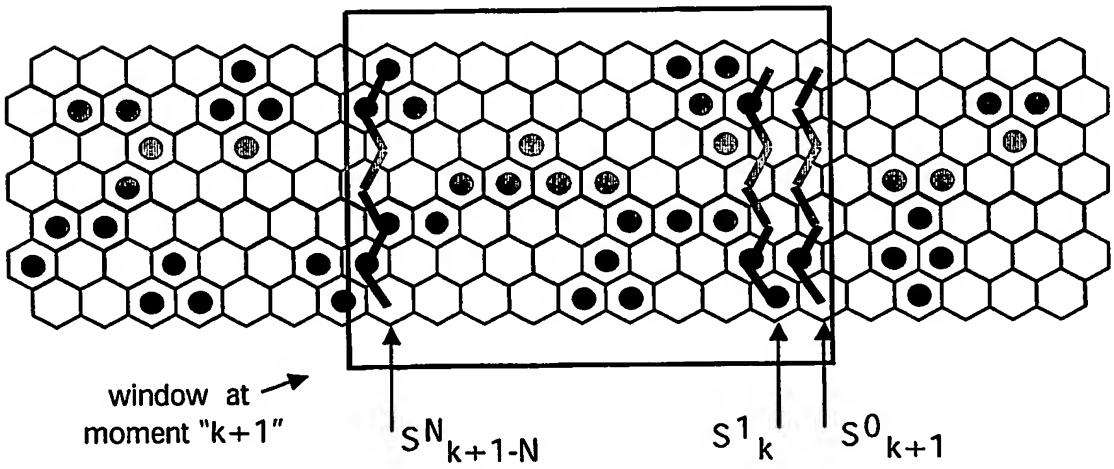


FIG.11b

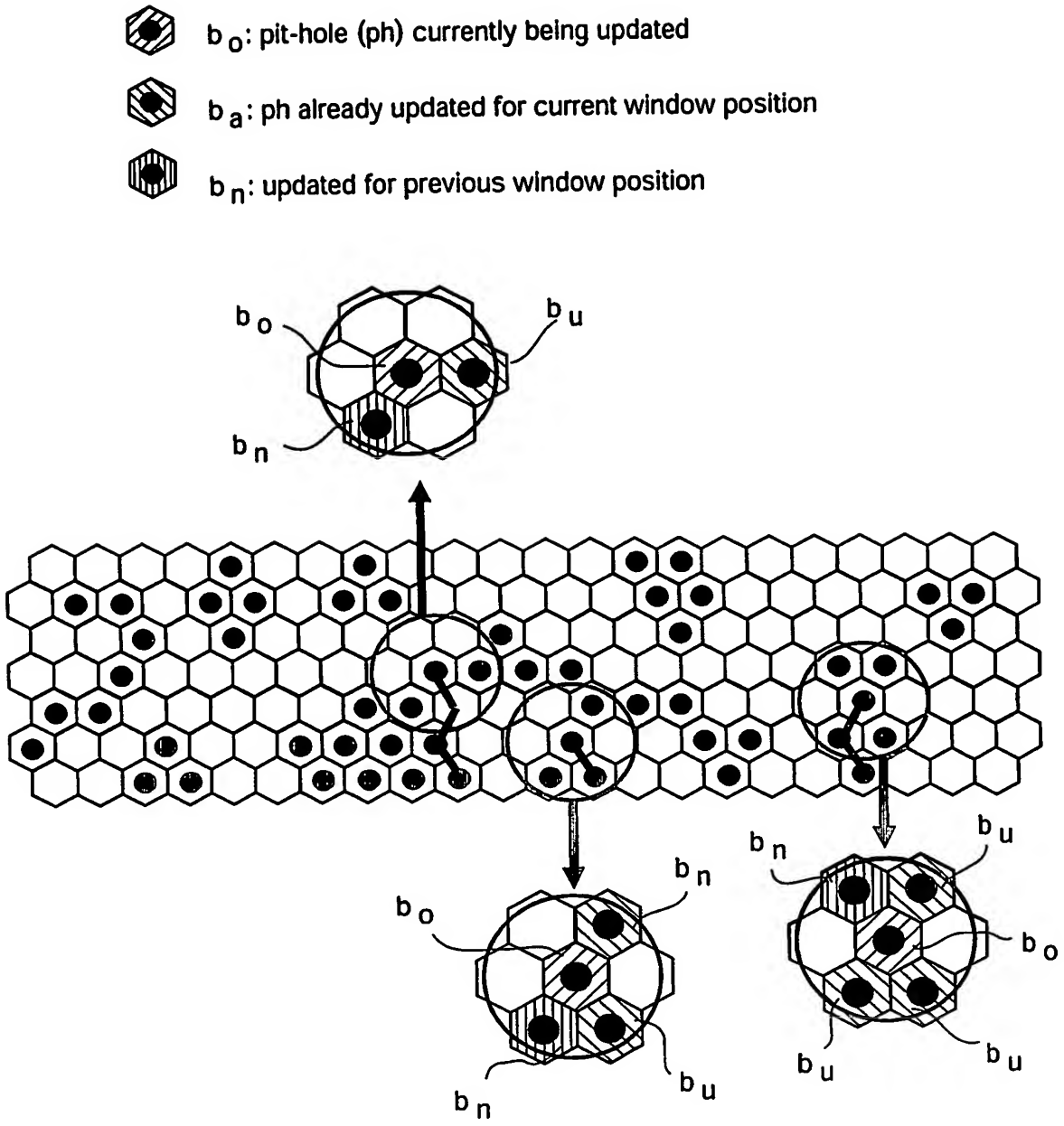
b o: pit-hole (ph) currently being updated
b a: ph already updated for current window position
b n: updated for previous window position
b o
b u
b n
b n
b o
b u
b n
b u
b o
b u
b u
b n

FIG.12